

M 7.5, 42 km NNW of Barranca, Peru

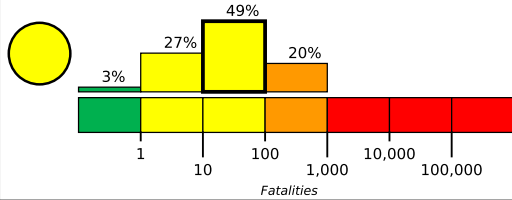
Origin Time: 2021-11-28 10:52:13 UTC (Sun 05:52:13 local)

Location: 4.4898° S 76.8461° W Depth: 112.5 km

FOR TSUNAMI INFORMATION, SEE: tsunami.gov

Created: 1 day, 14 hours after earthquake

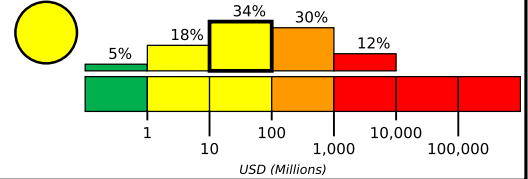
Estimated Fatalities



Yellow alert for shaking-related fatalities and economic losses. Some casualties and damage are possible and the impact should be relatively localized. Past yellow alerts have required a local or regional level response.

Estimated economic losses are less than 1% of GDP of Peru.

Estimated Economic Losses

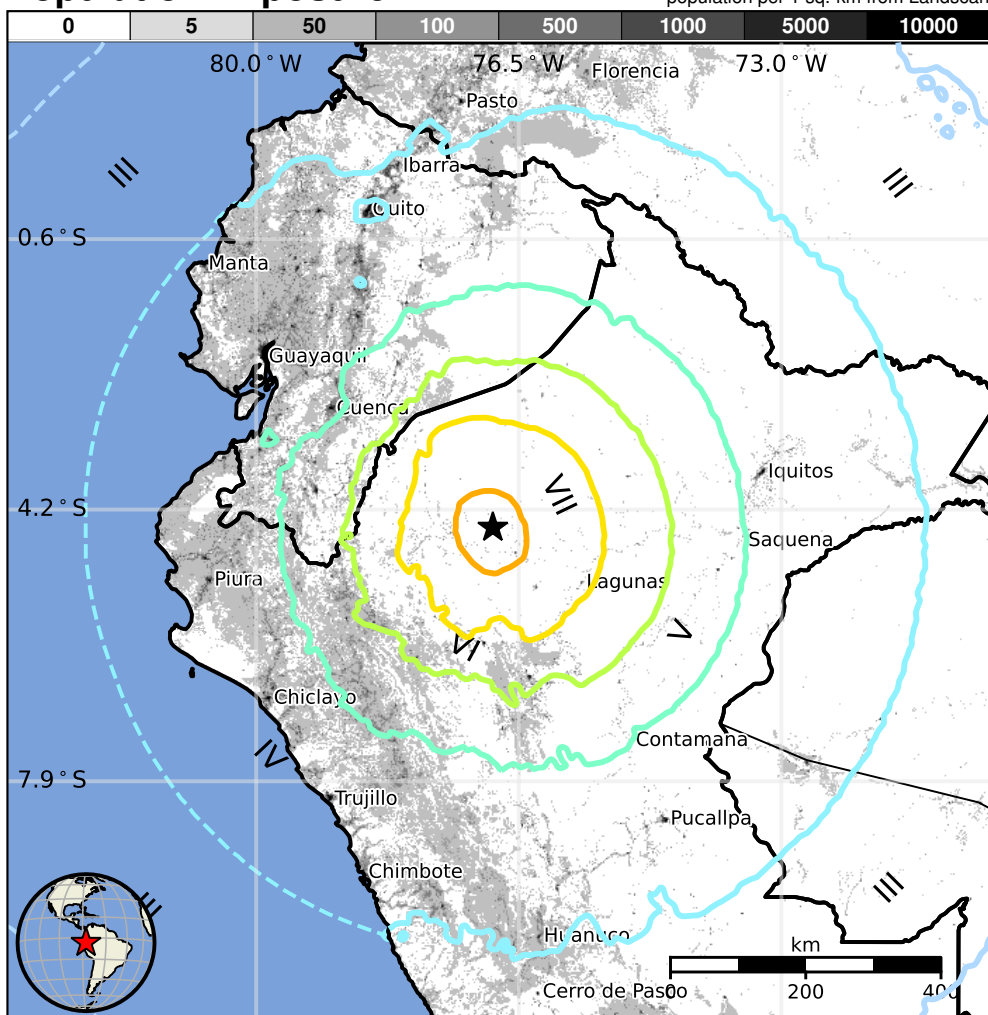


Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		—*	6,169k*	22,397k	3,154k	1,026k	207k	22k	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

*Estimated exposure only includes population within the map area.

Population Exposure



Structures

Overall, the population in this region resides in structures that are highly vulnerable to earthquake shaking, though some resistant structures exist. The predominant vulnerable building types are mud wall and reinforced/confined masonry construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1991-04-05	166	6.9	IX(80k)	53
1995-10-03	218	7.0	VIII(5k)	2
1990-05-30	174	6.5	VIII(131k)	135

Selected City Exposure

from GeoNames.org

MMI	City	Population
VIII	Barranca	6k
VIII	San Lorenzo	<1k
VII	Saramiriza	<1k
VII	Jeberos	<1k
VII	Alianza Cristiana	<1k
VII	Bajo Naranjillo	<1k
IV	Iquitos	438k
IV	Chiclayo	577k
IV	Trujillo	747k
IV	Guayaquil	1,952k
III	Quito	1,400k

PAGER content is automatically generated, and only considers losses due to structural damage.

Limitations of input data, shaking estimates, and loss models may add uncertainty.

<https://earthquake.usgs.gov/earthquakes/eventpage/us7000fxq2#pager>

bold cities appear on map.

(k = x1000)

Event ID: us7000fxq2